Speaker Installation Manual

DIAMOND
D6

| D663 | D673 |

Dear Valued Customer,

Thank you for choosing Diamond Audio D6 speakers. These speakers represent the latest advances in acoustic technology, and like all Diamond Audio products, are hand built and tested using the highest grade components and state of the art techniques. When installed properly, they will provide many years of accurate sound reproduction.

Please keep in mind that prolonged exposure to sound pressure levels in excess of 100 dB can cause permanent hearing loss. This high performance speaker system can exceed that level, so please exercise restraint in its operation in order to preserve your ability to enjoy its fidelity in the future.

Because of their flexible installation possibilities, please consider having your new speakers professionally installed by an authorized Diamond Audio dealer. This will assure a clean and efficient installation, and extend your one year warranty to two years.

At Diamond Audio, we strive to bring honest value and excellent quality to all of the products we build. By your purchase of this product, you have joined the growing family of discerning listeners who demand only the best. Welcome!

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- Hard Anodized Aluminum Cones
- Rubber Surrounds
- Proprietary Composite Frames
- Flat Progressive Spider
- Extended Pole Motor Design
- Rubber Boot Magnet Protector
- Model Specific Crossovers
- Shallow Mount

Programmable Crossovers

Each D6 convertable speaker features a 12 dB/octave crossover and tweeter protection to ensure absolute fidelity and protection during audio reproduction.

Standard Connection

D6 integrated systems are shipped configured for a single channel per speaker. Simply connect the speaker wire from the source to the exposed positive and negative terminals on the speaker.

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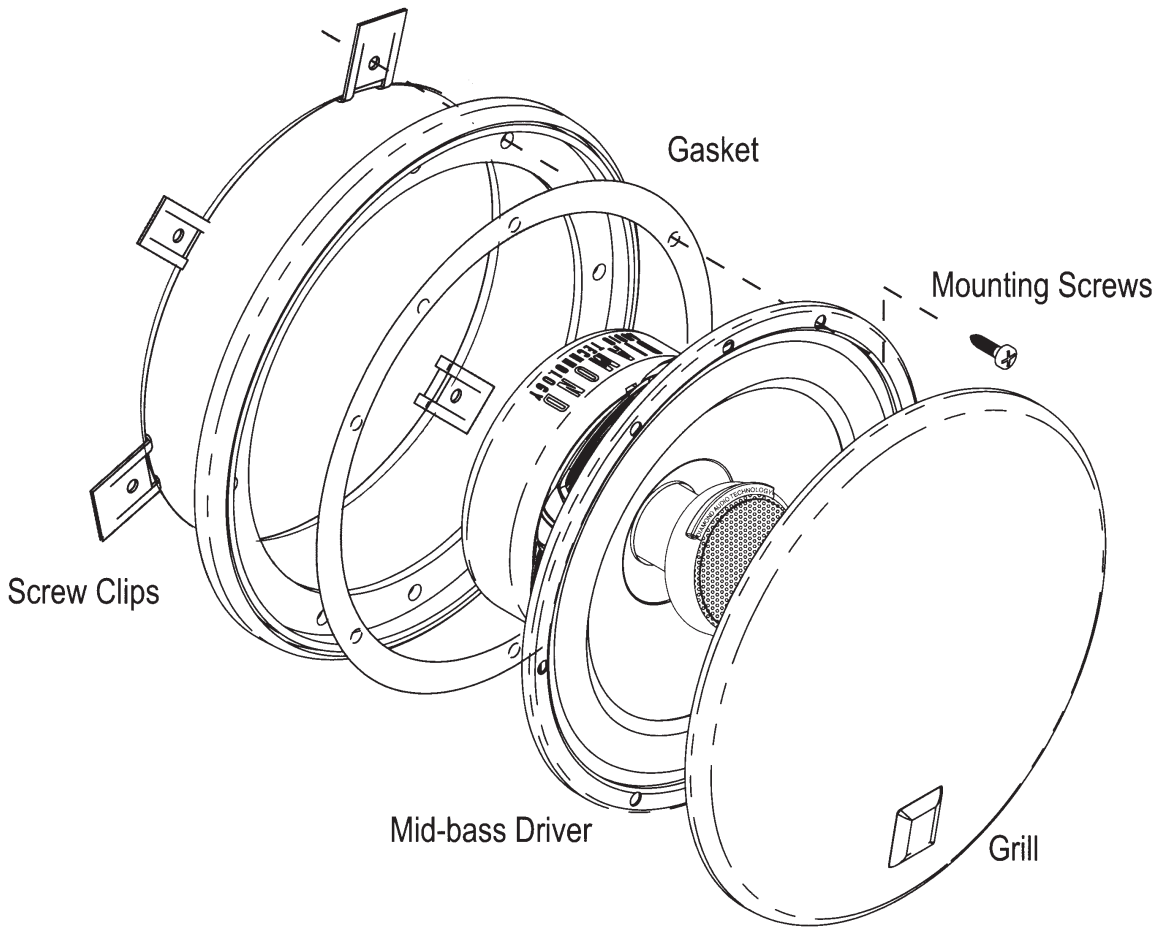
PARTS LIST

D663A/S D673A/S

(2) D6 Convertable Speakers
(2) D6 Model Specific Crossovers
(2) D6 Grills w/ Mounting Ring (except for D673)
(2) Mounting Gaskets
(1) Mounting Hardware Kit

MID-BASS SPEAKER MOUNTING

The illustration below shows the parts included and correct mounting assembly of the D6 integrated and component mid-bass drivers. Mounting ring and grill are optional.



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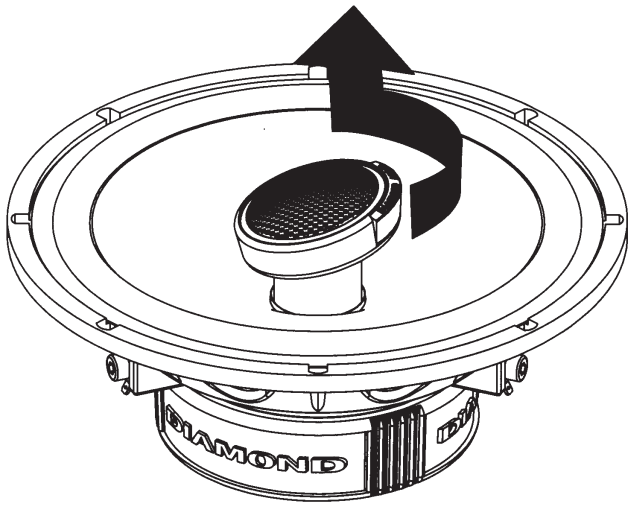
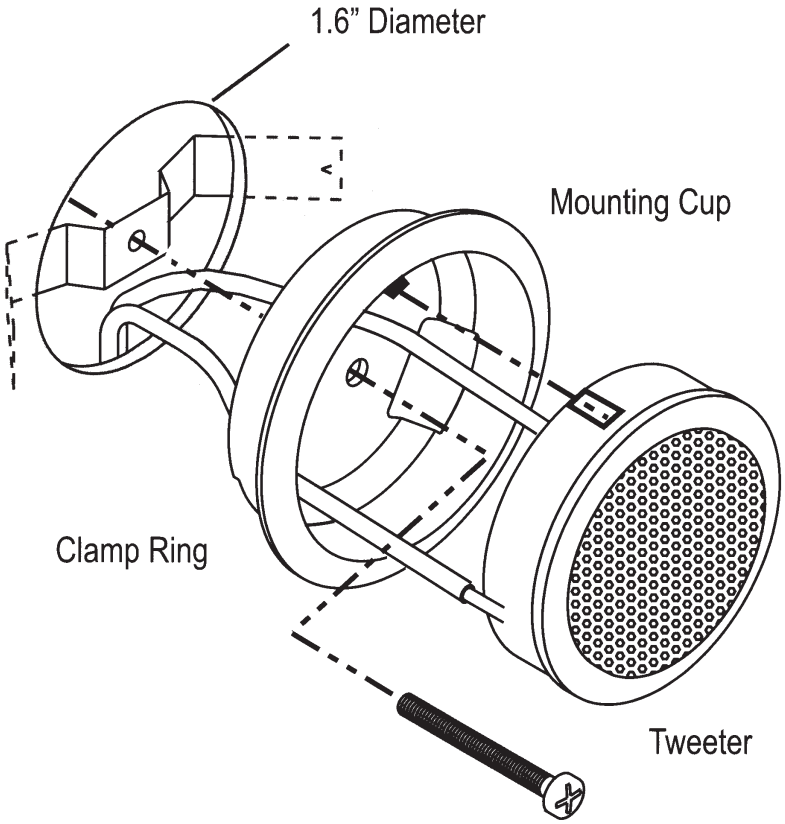
Convertable Tweeter Removal

Detach tweeter wires form terminals. Grasp tweeter firmly. Twist until tweeter detaches from mount. Pull tweeter assembly and wires free from speaker. Screw bullet shaped phase plug firmly onto tweeter mount.



Tweeter Mounting

When flush or surface mounting tweeters, make sure the desired location can accommodate the hole size and depth required. Mount the cup using provided hardware (flush mount illustration shown) Mount surface cup at desired angle with provided screws in tweeter mounting kit. Snake speaker wires through tweeter cup, connect tweeter to wires, and snap tweeter into cup by aligning the notches. Be careful not to push on the center of the tweeter grill.



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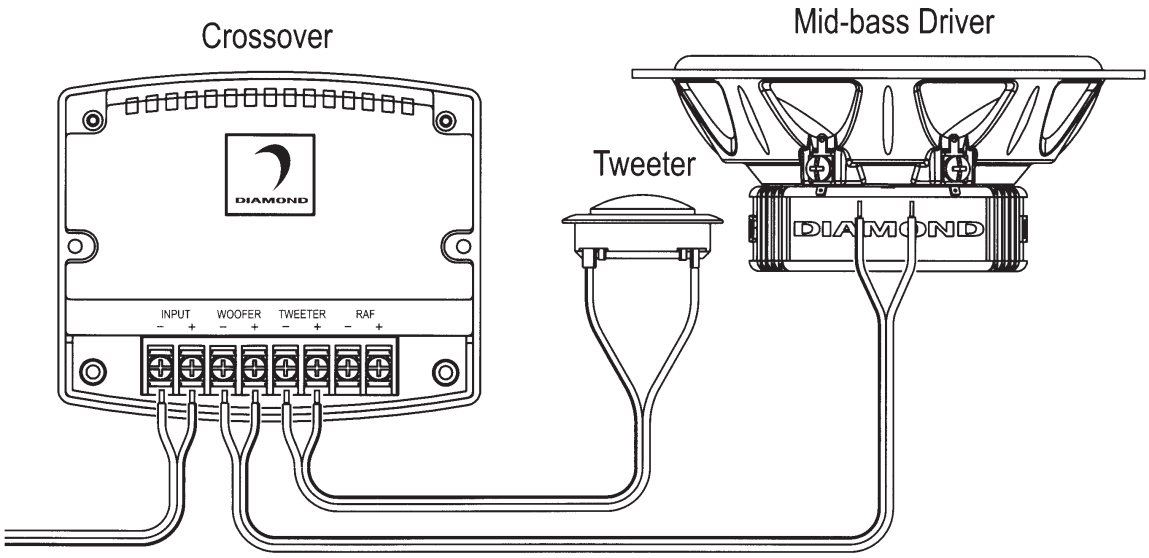
The illustration below shows how to connect one channel of the D6 component system.



Crossover Programming

Each D6 component set comes with a pair of model specific programmable crossovers. Under the cover there is a jumper marked PHASE 0 - 180. Tweeter phase can be changed by moving the jumper to the appropriate position. The adjustment of tweeter phase is intended to improve frequency response in the case that the tweter is off axis with the listener or seperated from the midrange by a significant distance.

RAF Outputs

Each D6 component crossover has a third set of outputs marked “RAF”. This stands for Rear Acoustic Fill. This output can be used to power an additional speaker off the same channel without affecting the impedance load on the source unit. This output provides 15-20% of the total power to the extra speaker and is unfiltered or full range.

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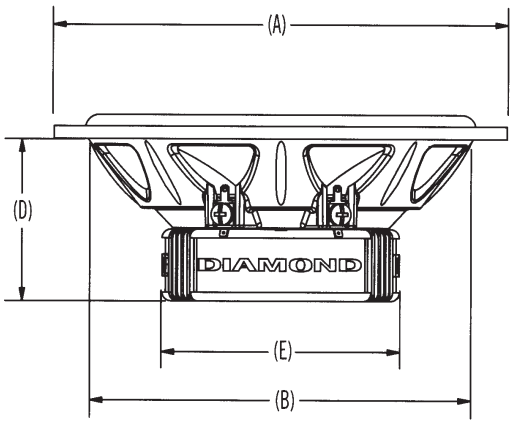
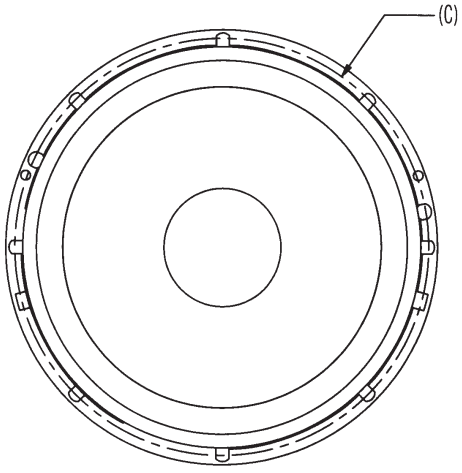
THIELE/SMALL PARAMETERS

Parameter (unit)	D663A/S	D673A/S
Sensitivity @ 2.83V	91.3	90.1
Qts	0.68	1.06
Fs (Hz)	60.0	76.0
Vas (L)	15.6	10.3
Re (ohm)	3.6	3.5
Xmax (mm)	3.0	4.0
Impedance (ohm)	4	4
Power Nom/Max (Watts)	75/150	60/120

PHYSICAL DIMENSIONS

Dimension	Unit	D663A/S	D673A/S
Total Diameter (A)	in. mm	6.51" 165.4	5.53" x 8.65" 140.5 x 219.7
Mounting Diameter (B)	in. mm	5.53" 140.6	6.92" x 4.95" 175.8" x 125.7"
Hole Diameter (C)	in. mm	6.14" 156.0	8.03" x 4.98" 203.9 x 126.5
Mounting Depth (D)	in. mm	2.32" 59.0	2.25" 57.2
Magnet Diameter (E)	in. mm	3.40" 86.4	3.07" 78.0





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LIMITED SPEAKER WARRANTY STATEMENT

Diamond Audio Technologies, LLC (DAT) warrants this product to be free from defects in material and workmanship for a period of one (1) year from the original date of purchase provided it was purchased from an authorized DAT retailer within the United States. However, if this product was installed by the authorized DAT retailer, the warranty period will be extended to two (2) years.

THIS WARRANTY IS NOT TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASER OF THIS PRODUCT IN ITS ORIGINAL INSTALLATION. Original purchaser must reside in the United States and be able to provide proof of purchase and installation with the sales receipt from the authorized DAT retailer that sold and installed the product.

Should a manufacturing defect occur during above said warranty period, DAT will replace or repair the defective product with a product of the same or equivalent value and performance.

Damage or failure caused by any of the following is not covered under this warranty policy: negligence, improper use, abuse, product modification, unauthorized repair attempts, accident, acts of God, misrepresentations by DAT retailers, and improper/inadequate packaging during return shipping.

Warranty is void if serial numbers have been removed, altered or defaced.

HOW TO OBTAIN WARRANTY SERVICE

In the event a DAT product should require service, you should visit the authorized DAT retailer you purchased the product from and they can expedite your claim. All claims must fall into the guidelines listed above and be accompanied by a copy of the original sales and installation receipt from that authorized DAT retailer.

Product returned for warranty service must be freight-prepaid, properly packaged and clearly marked with the Return Authorization (RA) number issued by DAT. Any product returned to DAT that is improperly packaged, does not have a RA number clearly marked on the package, or never received a RA number may be refused upon delivery. DAT does not assume responsibility for lost or misdirected product.

Repair or replacement under this warranty is the exclusive remedy of the consumer. DAT shall not be liable for any incidental or consequential damages for breach of any expressed or implied warranty on this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights that may vary from state to state.

Customers outside the United States should contact their local sales office to obtain information on pricing, exchange unit availability, instructions, service and warranty/non-warranty replacement or repair.

DIAMOND

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